

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P284013

Luminaire Tested: **LDA2B159035D010 EU2B15WFL559035 2LBAPINSQ1MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P284013
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1809-951-61)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LDA2B159035D010 EU2B15WFL559035 2LBAPINSQ1MB
Description: PORTFOLIO 2IN ADJ 1500 LUMEN LED LUMINAIRE WITH WIDE FLOOD OPTIC AND
2in Adj SQ PinHole, MB

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1078.7 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

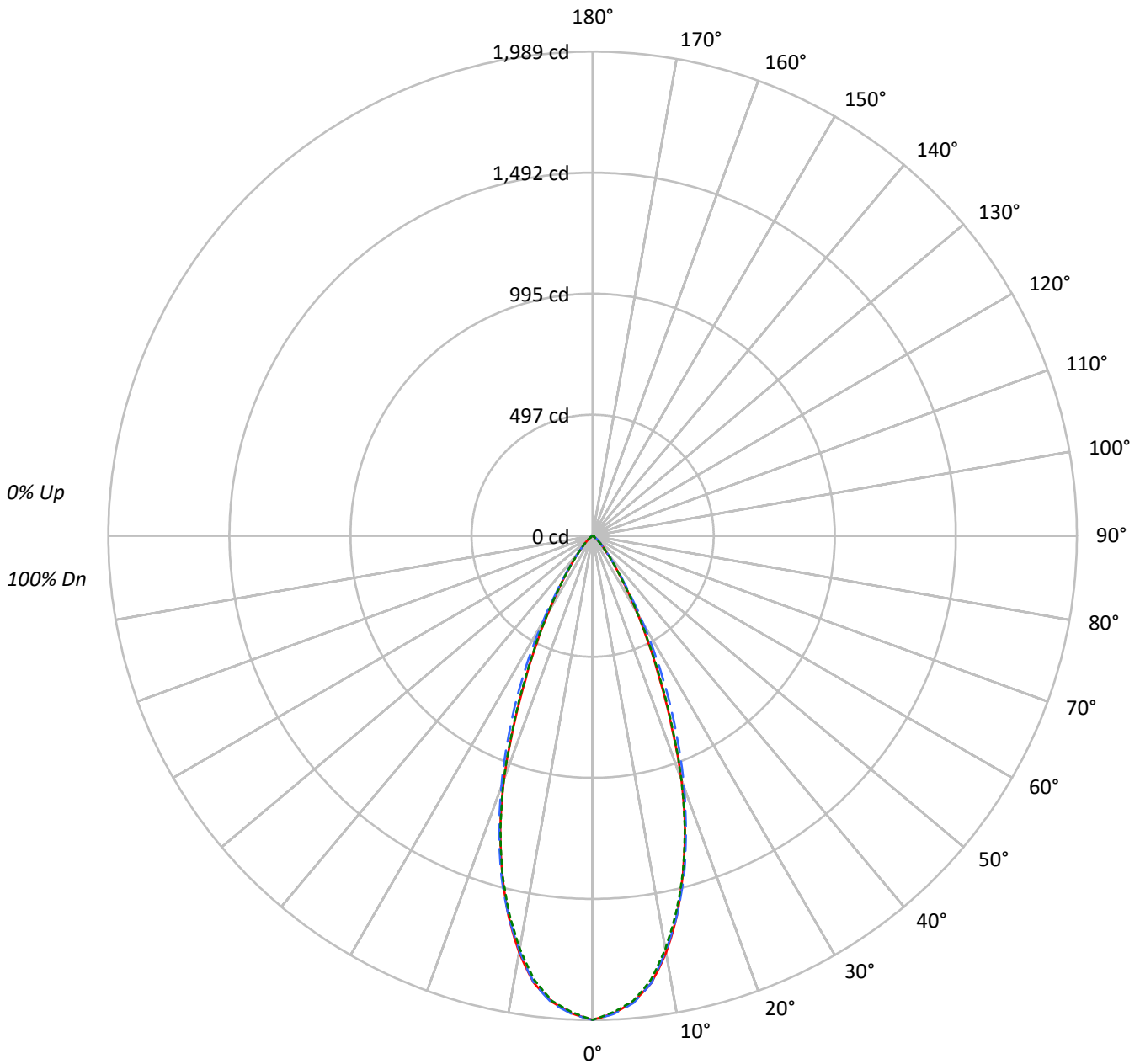
Input Watts (W): 14.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94					94			
2	109	104	101	98	107	103	99	96	100	97	94	97	94	92	94	92	90	89					89			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84					84			
4	100	93	88	84	98	92	87	83	90	86	82	88	84	81	86	83	81	79					79			
5	95	88	82	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75					75			
6	91	83	78	74	90	82	77	74	81	77	73	80	76	73	78	75	72	71					71			
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67					67			
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64					64			
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61					61			
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58					58			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	981198	981198	981198
5°	951715	953993	949684
10°	871141	867635	862424
15°	732744	739538	731570
20°	560359	575217	559414
25°	355851	401197	362765
30°	206967	233628	210556
35°	109375	116361	109736
40°	57770	60346	57770
45°	32304	33491	32723
50°	15120	19112	15120
55°	5505	10408	5935
60°	6315	6315	6315
65°	6771	7471	6771
70°	8366	7501	8366
75°	7625	7625	7625
80°	8239	6535	8239
85°	6793	6793	6793



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.5	16.5
10°-20°	395.3	36.6
20°-30°	319.2	29.6
30°-40°	126.2	11.7
40°-50°	38.7	3.6
50°-60°	10.0	0.9
60°-70°	6.1	0.6
70°-80°	4.4	0.4
80°-90°	1.3	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	892.0	82.7
0°-40°	1018.2	94.4
0°-60°	1066.9	98.9
0°-90°	1078.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1078.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1989	1989	1989	1989	1989	
5°	1922	1925	1926	1922	1918	178
15°	1435	1439	1448	1442	1432	394
25°	654	685	737	698	666	304
35°	182	187	193	187	182	122
45°	46	47	48	47	47	38
55°	6	9	12	9	7	8
65°	6	6	6	6	6	6
75°	4	4	4	4	4	4
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1988.8	1988.8	1988.8	1988.8	1988.8
2.5°	1963.9	1965.1	1966.8	1964.5	1958.7
5°	1921.7	1925.1	1926.3	1922.3	1917.6
7.5°	1852.3	1848.2	1851.7	1844.7	1839.0
10°	1738.9	1733.7	1731.9	1721.5	1721.5
12.5°	1598.9	1597.2	1598.3	1593.1	1585.0
15°	1434.6	1438.7	1447.9	1442.1	1432.3
17.5°	1260.5	1266.3	1274.4	1272.6	1259.3
20°	1067.3	1084.1	1095.6	1084.6	1065.5
22.5°	847.5	883.3	912.8	889.7	858.5
25°	653.7	684.9	737.0	697.6	666.4
27.5°	495.7	518.3	565.7	527.0	505.6
30°	363.3	377.2	410.1	384.7	369.6
32.5°	259.7	269.6	283.5	268.4	260.9
35°	181.6	186.8	193.2	187.4	182.2
37.5°	127.8	129.6	134.2	129.6	127.3
40°	89.7	90.2	93.7	90.8	89.7
42.5°	64.8	64.8	66.5	65.4	64.8
45°	46.3	46.9	48.0	47.4	46.9
47.5°	33.0	34.1	34.1	34.7	32.4
50°	19.7	24.3	24.9	24.3	19.7
52.5°	10.4	14.5	17.9	14.5	10.4
55°	6.4	8.7	12.1	8.7	6.9
57.5°	6.4	6.4	8.1	6.9	6.4
60°	6.4	6.4	6.4	6.4	6.4
62.5°	6.4	6.4	6.4	6.4	6.4
65°	5.8	6.4	6.4	6.4	5.8
67.5°	5.8	5.8	5.8	5.8	5.8
70°	5.8	5.8	5.2	5.8	5.8
72.5°	5.2	5.2	4.6	5.2	5.2
75°	4.0	4.0	4.0	4.0	4.0
77.5°	3.5	3.5	3.5	3.5	3.5
80°	2.9	2.9	2.3	2.9	2.9
82.5°	1.7	1.7	1.7	1.7	1.7
85°	1.2	1.2	1.2	1.2	1.2
87.5°	0.6	0.6	0.6	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)